



Chen 29-3-4  
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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Chen, Young-Kai et al.

Serial No.: 10/628,748

Filed: July 28, 2003

For: CONDUCTIVE ISOLATION FRAMES FOR ACTIVE MICROELECTRONIC  
DEVICES, AND METHODS OF MAKING SUCH CONDUCTIVE  
ISOLATION FRAMES

Group: 2814

Confirmation: 4860

Examiner: Steven H. Rao

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to:  
Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date set forth below:

Signed: Bonnie S. Sheridan Name: BONNIE S. SHERIDAN Date: November 28, 2005

Durham, North Carolina  
November 28, 2005

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Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Declaration Under 37 C.F.R. § 1.132

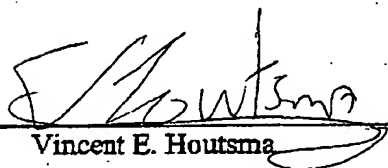
Vincent E. Houtsma declares as follows:

1. I am a co-inventor of the subject matter of the above-identified patent application.
2. I received a Masters degree in physics and a Ph.D. in electrical engineering from the Twente University in the Netherlands.

3. From April, 2000 to the present I have been employed by Lucent Technologies, Inc. My current position is as a Member of the Technical Staff in the High Speed Electronics business.
4. I have reviewed the Miles et al. U.S. Patent No. 6,384,463 and the Keri U.S. Patent No. 5,861,656 (collectively, "the cited prior art").
5. Based on my scientific experience and my review of the cited prior art, the cited prior art does not teach or suggest a semiconductor absorber and dissipative conductor combination configured to dissipate electromagnetic radiation within a center frequency range between about 1 gigahertz and about 1,000 gigahertz.
6. Based on my scientific experience, I conclude that the cited prior art teaches guard rings that are configured to provide shielding from static electric fields rather than to dissipate high frequency electromagnetic fields.
7. Based on my scientific experience, it does not necessarily follow that a guard ring configured to provide static shielding as in the cited prior would significantly dissipate incident electromagnetic radiation in the frequency range of about 1 gigahertz and about 1,000 gigahertz. Indeed, a guard ring configured to dissipate electromagnetic radiation in the above-cited frequency range would have to be made of a material with a resistivity higher than typically desired in guard rings for shielding of static electric fields.

8. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Signature

  
Vincent E. Houtsma

Date 11/28/05